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ctg cgc aaa ccc cgt atc ccc atg gag acc ttc aga aag gtg ggg atc   96
Leu Arg Lys Pro Arg Ile Pro Met Glu Thr Phe Arg Lys Val Gly Ile
             20                  25                  30

ccc atc atc ata gca cta ctg agc ctg gcg agt atc atc att gtg gtt   144
Pro Ile Ile Ile Ala Leu Leu Ser Leu Ala Ser Ile Ile Ile Val Val
         35                  40                  45

gtc ctc atc aag gtg att ctg gat aaa tac tac ttc ctc tgc ggg cag   192
Val Leu Ile Lys Val Ile Leu Asp Lys Tyr Tyr Phe Leu Cys Gly Gln
     50                  55                  60

cct ctc cac ttc atc ccg agg aag cag ctg tgt gac gga gag ctg gac   240
Pro Leu His Phe Ile Pro Arg Lys Gln Leu Cys Asp Gly Glu Leu Asp
 65                  70                  75                  80

tgt ccc ttg ggg gag gac gag gag cac tgt gtc aag agc ttc ccc gaa   288
Cys Pro Leu Gly Glu Asp Glu Glu His Cys Val Lys Ser Phe Pro Glu
                 85                  90                  95

ggg cct gca gtg gca gtc cgc ctc tcc aag gac cga tcc aca ctg cag   336
Gly Pro Ala Val Ala Val Arg Leu Ser Lys Asp Arg Ser Thr Leu Gln
            100                 105                 110

gtg ctg gac tcg gcc aca ggg aac tgg ttc tct gcc tgt ttc gac aac   384
Val Leu Asp Ser Ala Thr Gly Asn Trp Phe Ser Ala Cys Phe Asp Asn
        115                 120                 125

ttc aca gaa gct ctc gct gag aca gcc tgt agg cag atg ggc tac agc   432
Phe Thr Glu Ala Leu Ala Glu Thr Ala Cys Arg Gln Met Gly Tyr Ser
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agc aaa ccc act ttc aga gct gtg gag att ggc cca gac cag gat ctg   480
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gat gtt gtt gaa atc aca gaa aac agc cag gag ctt cgc atg cgg aac   528
Asp Val Val Glu Ile Thr Glu Asn Ser Gln Glu Leu Arg Met Arg Asn
                165                 170                 175

tca agt ggg ccc tgt ctc tca ggc tcc ctg gtc tcc ctg cac tgt ctt   576
Ser Ser Gly Pro Cys Leu Ser Gly Ser Leu Val Ser Leu His Cys Leu
            180                 185                 190

gcc tgt ggg aag agc ctg aag acc ccc cgt gtg gtg ggt ggg gag gag   624
Ala Cys Gly Lys Ser Leu Lys Thr Pro Arg Val Val Gly Gly Glu Glu
        195                 200                 205

gcc tct gtg gat tct tgg cct tgg cag gtc agc atc cag tac gac aaa   672
Ala Ser Val Asp Ser Trp Pro Trp Gln Val Ser Ile Gln Tyr Asp Lys
    210                 215                 220

cag cac gtc tgt gga ggg agc atc ctg gac ccc cac tgg gtc ctc acg   720
Gln His Val Cys Gly Gly Ser Ile Leu Asp Pro His Trp Val Leu Thr
225                 230                 235                 240

gca gcc cac tgc ttc agg aaa cat acc gat gtg ttc aac tgg aag gtg   768
Ala Ala His Cys Phe Arg Lys His Thr Asp Val Phe Asn Trp Lys Val
                245                 250                 255

cgg gca ggc tca gac aaa ctg ggc agc ttc cca tcc ctg gct gtg gcc   816
Arg Ala Gly Ser Asp Lys Leu Gly Ser Phe Pro Ser Leu Ala Val Ala
            260                 265                 270

aag atc atc atc att gaa ttc aac ccc atg tac ccc aaa gac aat gac   864
Lys Ile Ile Ile Ile Glu Phe Asn Pro Met Tyr Pro Lys Asp Asn Asp
        275                 280                 285

atc gcc ctc atg aag ctg cag ttc cca ctc act ttc tca ggc aca gtc   912
Ile Ala Leu Met Lys Leu Gln Phe Pro Leu Thr Phe Ser Gly Thr Val
    290                 295                 300

agg ccc atc tgt ctg ccc ttc ttt gat gag gag ctc act cca gcc acc   960
Arg Pro Ile Cys Leu Pro Phe Phe Asp Glu Glu Leu Thr Pro Ala Thr
305                 310                 315                 320

cca ctc tgg atc att gga tgg ggc ttt acg aag cag aat gga ggg aag   1008
Pro Leu Trp Ile Ile Gly Trp Gly Phe Thr Lys Gln Asn Gly Gly Lys
                325                 330                 335

atg tct gac ata ctg ctg cag gcg tca gtc cag gtc att gac agc aca   1056
Met Ser Asp Ile Leu Leu Gln Ala Ser Val Gln Val Ile Asp Ser Thr
            340                 345                 350

cgg tgc aat gca gac gat gcg tac cag ggg gaa gtc acc gag aag atg   1104
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        355                 360                 365

atg tgt gca ggc atc ccg gaa ggg ggt gtg gac acc tgc cag ggt gac   1152
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agt ggt ggg ccc ctg atg tac caa tct gac cag tgg cat gtg gtg ggc   1200
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atc gtt agc tgg ggc tat ggc tgc ggg ggc ccg agc acc cca gga gta   1248
Ile Val Ser Trp Gly Tyr Gly Cys Gly Gly Pro Ser Thr Pro Gly Val
                405                 410                 415

tac acc aag gtc tca gcc tat ctc aac tgg atc tac aat gtc tgg aag   1296
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Pro Ile Ile Ile Ala Leu Leu Ser Leu Ala Ser Ile Ile Ile Val Val
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Val Leu Ile Lys Val Ile Leu Asp Lys Tyr Tyr Phe Leu Cys Gly Gln
    50                  55                  60

Pro Leu His Phe Ile Pro Arg Lys Gln Leu Cys Asp Gly Glu Leu Asp
65                  70                  75                  80

Cys Pro Leu Gly Glu Asp Glu Glu His Cys Val Lys Ser Phe Pro Glu
                85                  90                  95

Gly Pro Ala Val Ala Val Arg Leu Ser Lys Asp Arg Ser Thr Leu Gln
            100                 105                 110

Val Leu Asp Ser Ala Thr Gly Asn Trp Phe Ser Ala Cys Phe Asp Asn
        115                 120                 125

Phe Thr Glu Ala Leu Ala Glu Thr Ala Cys Arg Gln Met Gly Tyr Ser
    130                 135                 140

Ser Lys Pro Thr Phe Arg Ala Val Glu Ile Gly Pro Asp Gln Asp Leu
145                 150                 155                 160

Asp Val Val Glu Ile Thr Glu Asn Ser Gln Glu Leu Arg Met Arg Asn
                165                 170                 175

Ser Ser Gly Pro Cys Leu Ser Gly Ser Leu Val Ser Leu His Cys Leu
            180                 185                 190

Ala Cys Gly Lys Ser Leu Lys Thr Pro Arg Val Val Gly Gly Glu Glu
        195                 200                 205
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Ala Ser Val Asp Ser Trp Pro Trp Gln Val Ser Ile Gln Tyr Asp Lys
    210                 215                 220

Gln His Val Cys Gly Gly Ser Ile Leu Asp Pro His Trp Val Leu Thr
225                 230                 235                 240

Ala Ala His Cys Phe Arg Lys His Thr Asp Val Phe Asn Trp Lys Val
                245                 250                 255

Arg Ala Gly Ser Asp Lys Leu Gly Ser Phe Pro Ser Leu Ala Val Ala
            260                 265                 270

Lys Ile Ile Ile Ile Glu Phe Asn Pro Met Tyr Pro Lys Asp Asn Asp
        275                 280                 285

Ile Ala Leu Met Lys Leu Gln Phe Pro Leu Thr Phe Ser Gly Thr Val
    290                 295                 300

Arg Pro Ile Cys Leu Pro Phe Phe Asp Glu Glu Leu Thr Pro Ala Thr
305                 310                 315                 320

Pro Leu Trp Ile Ile Gly Trp Gly Phe Thr Lys Gln Asn Gly Gly Lys
                325                 330                 335

Met Ser Asp Ile Leu Leu Gln Ala Ser Val Gln Val Ile Asp Ser Thr
            340                 345                 350

Arg Cys Asn Ala Asp Asp Ala Tyr Gln Gly Glu Val Thr Glu Lys Met
        355                 360                 365

Met Cys Ala Gly Ile Pro Glu Gly Gly Val Asp Thr Cys Gln Gly Asp
    370                 375                 380

Ser Gly Gly Pro Leu Met Tyr Gln Ser Asp Gln Trp His Val Val Gly
385                 390                 395                 400

Ile Val Ser Trp Gly Tyr Gly Cys Gly Gly Pro Ser Thr Pro Gly Val
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ctg cgc aaa ccc cgt atc ccc atg gag acc ttc aga aag gtg ggg atc   96
Leu Arg Lys Pro Arg Ile Pro Met Glu Thr Phe Arg Lys Val Gly Ile
            20                  25                  30

ccc atc atc ata gca cta ctg agc ctg gcg agt atc atc att gtg gtt  144
Pro Ile Ile Ile Ala Leu Leu Ser Leu Ala Ser Ile Ile Ile Val Val
        35                  40                  45

gtc ctc atc aag gtg att ctg gat aaa tac tac ttc ctc tgc ggg cag  192
Val Leu Ile Lys Val Ile Leu Asp Lys Tyr Tyr Phe Leu Cys Gly Gln
    50                  55                  60

cct ctc cac ttc atc ccg agg aag cag ctg tgt gac gga gag ctg gac  240
Pro Leu His Phe Ile Pro Arg Lys Gln Leu Cys Asp Gly Glu Leu Asp
65                  70                  75                  80

tgt ccc ttg ggg gag gac gag gag cac tgt gtc aag agc ttc ccc gaa  288
Cys Pro Leu Gly Glu Asp Glu Glu His Cys Val Lys Ser Phe Pro Glu
                85                  90                  95

ggg cct gca gtg gca gtc cgc ctc tcc aag gac cga tcc aca ctg cag  336
Gly Pro Ala Val Ala Val Arg Leu Ser Lys Asp Arg Ser Thr Leu Gln
            100                 105                 110

gtg ctg gac tcg gcc aca ggg aac tgg ttc tct gcc tgt ttc gac aac  384
Val Leu Asp Ser Ala Thr Gly Asn Trp Phe Ser Ala Cys Phe Asp Asn
        115                 120                 125

ttc aca gaa gct ctc gct gag aca gcc tgt agg cag atg ggc tac agc  432
Phe Thr Glu Ala Leu Ala Glu Thr Ala Cys Arg Gln Met Gly Tyr Ser
    130                 135                 140

agc aaa ccc act ttc aga gct gtg gag att ggc cca gac cag gat ctg  480
Ser Lys Pro Thr Phe Arg Ala Val Glu Ile Gly Pro Asp Gln Asp Leu
145                 150                 155                 160

gat gtt gtt gaa atc aca gaa aac agc cag gag ctt cgc atg cgg aac  528
Asp Val Val Glu Ile Thr Glu Asn Ser Gln Glu Leu Arg Met Arg Asn
                165                 170                 175

tca agt ggg ccc tgt ctc tca ggc tcc ctg gtc tcc ctg cac tgt ctt  576
Ser Ser Gly Pro Cys Leu Ser Gly Ser Leu Val Ser Leu His Cys Leu
            180                 185                 190

gcc tgt ggg aag agc ctg aag acc ccc cgt gtg gtg ggt ggg gag gag  624
Ala Cys Gly Lys Ser Leu Lys Thr Pro Arg Val Val Gly Gly Glu Glu
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gcc tct gtg gat tct tgg cct tgg cag gtc agc atc cag tac gac aaa  672
Ala Ser Val Asp Ser Trp Pro Trp Gln Val Ser Ile Gln Tyr Asp Lys
    210                 215                 220

cag cac gtc tgt gga ggg agc atc ctg gac ccc cac tgg gtc ctc acg  720
Gln His Val Cys Gly Gly Ser Ile Leu Asp Pro His Trp Val Leu Thr
225                 230                 235                 240

gca gcc cac tgc ttc agg aaa cat acc gat gtg ttc aac tgg aag gtg  768
Ala Ala His Cys Phe Arg Lys His Thr Asp Val Phe Asn Trp Lys Val
                245                 250                 255
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cgg gca ggc tca gac aaa ctg ggc agc ttc cca tcc ctg gct gtg gcc   816
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            260                 265                 270

aag atc atc atc att gaa ttc aac ccc atg tac ccc aaa gac aat gac   864
Lys Ile Ile Ile Ile Glu Phe Asn Pro Met Tyr Pro Lys Asp Asn Asp
        275                 280                 285

atc gcc ctc atg aag ctg cag ttc cca ctc act ttc tca ggc aca gtc   912
Ile Ala Leu Met Lys Leu Gln Phe Pro Leu Thr Phe Ser Gly Thr Val
    290                 295                 300

agg ccc atc tgt ctg ccc ttc ttt gat gag gag ctc act cca gcc acc   960
Arg Pro Ile Cys Leu Pro Phe Phe Asp Glu Glu Leu Thr Pro Ala Thr
305                 310                 315                 320

cca ctc tgg atc att gga tgg ggc ttt acg aag cag aat gga ggg aag  1008
Pro Leu Trp Ile Ile Gly Trp Gly Phe Thr Lys Gln Asn Gly Gly Lys
                325                 330                 335

atg tct gac ata ctg ctg cag gcg tca gtc cag gtc att gac agc aca  1056
Met Ser Asp Ile Leu Leu Gln Ala Ser Val Gln Val Ile Asp Ser Thr
            340                 345                 350

cgg tgc aat gca gac gat gcg tac cag ggg gaa gtc acc gag aag atg  1104
Arg Cys Asn Ala Asp Asp Ala Tyr Gln Gly Glu Val Thr Glu Lys Met
        355                 360                 365

atg tgt gca ggc atc ccg gaa ggg ggt gtg gac acc tgc cag ggt gac  1152
Met Cys Ala Gly Ile Pro Glu Gly Gly Val Asp Thr Cys Gln Gly Asp
    370                 375                 380

agt ggt ggg ccc ctg atg tac caa tct gac cag tgg cat gtg gtg ggc  1200
Ser Gly Gly Pro Leu Met Tyr Gln Ser Asp Gln Trp His Val Val Gly
385                 390                 395                 400

atc gtt agc tgg ggc tat ggc tgc ggg ggc ccg agc acc cca gga gta  1248
Ile Val Ser Trp Gly Tyr Gly Cys Gly Gly Pro Ser Thr Pro Gly Val
                405                 410                 415

tac acc aag gtc tca gcc tat ctc aac tgg atc tac aat gtc tgg aag  1296
Tyr Thr Lys Val Ser Ala Tyr Leu Asn Trp Ile Tyr Asn Val Trp Lys
            420                 425                 430

gat aga act att cag aga agc tgt aac tcc cca ggg aca ggt ctt gtg  1344
Asp Arg Thr Ile Gln Arg Ser Cys Asn Ser Pro Gly Thr Gly Leu Val
        435                 440                 445

att cag caa cca gct gta ccg ctg atg gag cta cgg tca gct cgg cac  1392
Ile Gln Gln Pro Ala Val Pro Leu Met Glu Leu Arg Ser Ala Arg His
    450                 455                 460

aca cat cgc ctg acc acc tgt gtt tgc ttt ctc tca ttc cct gcc tta  1440
Thr His Arg Leu Thr Thr Cys Val Cys Phe Leu Ser Phe Pro Ala Leu
465                 470                 475                 480

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                485                 490
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             20                  25                  30
Pro Ile Ile Ile Ala Leu Leu Ser Leu Ala Ser Ile Ile Ile Val Val
         35                  40                  45
Val Leu Ile Lys Val Ile Leu Asp Lys Tyr Tyr Phe Leu Cys Gly Gln
     50                  55                  60
Pro Leu His Phe Ile Pro Arg Lys Gln Leu Cys Asp Gly Glu Leu Asp
 65                  70                  75                  80
Cys Pro Leu Gly Glu Asp Glu Glu His Cys Val Lys Ser Phe Pro Glu
                 85                  90                  95
Gly Pro Ala Val Ala Val Arg Leu Ser Lys Asp Arg Ser Thr Leu Gln
            100                 105                 110
Val Leu Asp Ser Ala Thr Gly Asn Trp Phe Ser Ala Cys Phe Asp Asn
        115                 120                 125
Phe Thr Glu Ala Leu Ala Glu Thr Ala Cys Arg Gln Met Gly Tyr Ser
    130                 135                 140
Ser Lys Pro Thr Phe Arg Ala Val Glu Ile Gly Pro Asp Gln Asp Leu
145                 150                 155                 160
Asp Val Val Glu Ile Thr Glu Asn Ser Gln Glu Leu Arg Met Arg Asn
                165                 170                 175
Ser Ser Gly Pro Cys Leu Ser Gly Ser Leu Val Ser Leu His Cys Leu
            180                 185                 190
Ala Cys Gly Lys Ser Leu Lys Thr Pro Arg Val Val Gly Gly Glu Glu
        195                 200                 205
Ala Ser Val Asp Ser Trp Pro Trp Gln Val Ser Ile Gln Tyr Asp Lys
    210                 215                 220
Gln His Val Cys Gly Gly Ser Ile Leu Asp Pro His Trp Val Leu Thr
225                 230                 235                 240
Ala Ala His Cys Phe Arg Lys His Thr Asp Val Phe Asn Trp Lys Val
                245                 250                 255
Arg Ala Gly Ser Asp Lys Leu Gly Ser Phe Pro Ser Leu Ala Val Ala
            260                 265                 270
Lys Ile Ile Ile Ile Glu Phe Asn Pro Met Tyr Pro Lys Asp Asn Asp
        275                 280                 285
Ile Ala Leu Met Lys Leu Gln Phe Pro Leu Thr Phe Ser Gly Thr Val
    290                 295                 300
Arg Pro Ile Cys Leu Pro Phe Phe Asp Glu Glu Leu Thr Pro Ala Thr
305                 310                 315                 320
Pro Leu Trp Ile Ile Gly Trp Gly Phe Thr Lys Gln Asn Gly Gly Lys
                325                 330                 335
Met Ser Asp Ile Leu Leu Gln Ala Ser Val Gln Val Ile Asp Ser Thr
            340                 345                 350
Arg Cys Asn Ala Asp Asp Ala Tyr Gln Gly Glu Val Thr Glu Lys Met
        355                 360                 365
Met Cys Ala Gly Ile Pro Glu Gly Gly Val Asp Thr Cys Gln Gly Asp
    370                 375                 380
Ser Gly Gly Pro Leu Met Tyr Gln Ser Asp Gln Trp His Val Val Gly
385                 390                 395                 400
Ile Val Ser Trp Gly Tyr Gly Cys Gly Gly Pro Ser Thr Pro Gly Val
                405                 410                 415
Tyr Thr Lys Val Ser Ala Tyr Leu Asn Trp Ile Tyr Asn Val Trp Lys
            420                 425                 430
Asp Arg Thr Ile Gln Arg Ser Cys Asn Ser Pro Gly Thr Gly Leu Val
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        435                 440                 445
Ile Gln Gln Pro Ala Val Pro Leu Met Glu Leu Arg Ser Ala Arg His
    450                 455                 460
Thr His Arg Leu Thr Thr Cys Val Cys Phe Leu Ser Phe Pro Ala Leu
465                 470                 475                 480
Gln Pro Leu Ser Pro Leu Cys Pro Phe Pro Trp Asp
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Met Asp Pro Asp Ser Asp Gln Pro Leu Asn Ser Leu Asp Val Lys Pro
  1               5                  10                  15

ctg cgc aaa ccc cgt atc ccc atg gag acc ttc aga aag gtg ggg atc   96
Leu Arg Lys Pro Arg Ile Pro Met Glu Thr Phe Arg Lys Val Gly Ile
             20                  25                  30

ccc atc atc ata gca cta ctg agc ctg gcg agt atc atc att gtg gtt   144
Pro Ile Ile Ile Ala Leu Leu Ser Leu Ala Ser Ile Ile Ile Val Val
         35                  40                  45

gtc ctc atc aag gtg att ctg gat aaa tac tac ttc ctc tgc ggg cag   192
Val Leu Ile Lys Val Ile Leu Asp Lys Tyr Tyr Phe Leu Cys Gly Gln
     50                  55                  60

cct ctc cac ttc atc ccg agg aag cag ctg tgt gac gga gag ctg gac   240
Pro Leu His Phe Ile Pro Arg Lys Gln Leu Cys Asp Gly Glu Leu Asp
 65                  70                  75                  80

tgt ccc ttg ggg gag gac gag gag cac tgt gtc aag agc ttc ccc gaa   288
Cys Pro Leu Gly Glu Asp Glu Glu His Cys Val Lys Ser Phe Pro Glu
                85                  90                  95

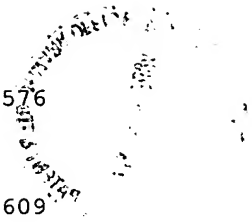
ggg cct gca gtg gca gtc cgc ctc tcc aag gac cga tcc aca ctg cag   336
Gly Pro Ala Val Ala Val Arg Leu Ser Lys Asp Arg Ser Thr Leu Gln
            100                 105                 110

gtg ctg gac tcg gcc aca ggg aac tgg ttc tct gcc tgt ttc gac aac   384
Val Leu Asp Ser Ala Thr Gly Asn Trp Phe Ser Ala Cys Phe Asp Asn
        115                 120                 125

ttc aca gca gcc cta gct cgg cca cac ttg gtg ctc cca gca tcc cag   432
Phe Thr Ala Ala Leu Ala Arg Pro His Leu Val Leu Pro Ala Ser Gln
    130                 135                 140

gga gag aca cag ccc act gaa caa ggt ctc agg ggt att gct aag cca   480
Gly Glu Thr Gln Pro Thr Glu Gln Gly Leu Arg Gly Ile Ala Lys Pro
145                 150                 155                 160

aga agg aac ttt ccc aca cta ctg aat gga agc agg ctg tct tgt aaa   528
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Arg Arg Asn Phe Pro Thr Leu Leu Asn Gly Ser Arg Leu Ser Cys Lys
                165                 170                 175

agc cca gat cac tgt ggg ctg gag agg aga agg aaa ggg tct gcg cca   576
Ser Pro Asp His Cys Gly Leu Glu Arg Arg Arg Lys Gly Ser Ala Pro
            180                 185                 190

gcc ctg tcc gtc ttc acc cat ccc caa gcc tac                      609
Ala Leu Ser Val Phe Thr His Pro Gln Ala Tyr
        195                 200
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             20                  25                  30

Pro Ile Ile Ile Ala Leu Leu Ser Leu Ala Ser Ile Ile Ile Val Val
         35                  40                  45

Val Leu Ile Lys Val Ile Leu Asp Lys Tyr Tyr Phe Leu Cys Gly Gln
     50                  55                  60

Pro Leu His Phe Ile Pro Arg Lys Gln Leu Cys Asp Gly Glu Leu Asp
 65                  70                  75                  80

Cys Pro Leu Gly Glu Asp Glu Glu His Cys Val Lys Ser Phe Pro Glu
                 85                  90                  95

Gly Pro Ala Val Ala Val Arg Leu Ser Lys Asp Arg Ser Thr Leu Gln
            100                 105                 110

Val Leu Asp Ser Ala Thr Gly Asn Trp Phe Ser Ala Cys Phe Asp Asn
        115                 120                 125

Phe Thr Ala Ala Leu Ala Arg Pro His Leu Val Leu Pro Ala Ser Gln
    130                 135                 140

Gly Glu Thr Gln Pro Thr Glu Gln Gly Leu Arg Gly Ile Ala Lys Pro
145                 150                 155                 160

Arg Arg Asn Phe Pro Thr Leu Leu Asn Gly Ser Arg Leu Ser Cys Lys
                165                 170                 175

Ser Pro Asp His Cys Gly Leu Glu Arg Arg Arg Lys Gly Ser Ala Pro
            180                 185                 190

Ala Leu Ser Val Phe Thr His Pro Gln Ala Tyr
        195                 200
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